

Application No. 10/604,143
Docket No. A2-1456
Amendment dated October 20, 2005
Reply to Office Action of July 20, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-17 (Canceled)

Claim 18 (Currently amended): An extruded heat exchanger tube having at least one internal passage extending in a longitudinal direction parallel to an extrusion direction of the tube, an external surface having a cross-sectional shape in a plane transverse to the extrusion direction, and at least one integral fin having alternating first and second portions, the first portions extending a greater distance from the external surface of the tube than the second portions, the at least one integral fin and the first portion thereof being parallel to the internal passage ~~extrusion direction~~ and extending in a direction away from the external surface of the tube so that the orientation of the at least one integral fin relative to the tube enables co-extrusion of the tube and the at least one integral fin and the first portion thereof.

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Claim 19 (Original): An extruded heat exchanger tube according to claim 18, wherein the external surface of the tube has two oppositely-disposed flat surfaces and two oppositely-disposed lateral surfaces, and the cross-sectional shape of the tube is oblong as a result of the flat surfaces having larger cross-sectional dimensions than the lateral surfaces.

Claim 20 (Original): An extruded heat exchanger tube according to claim 19, wherein the at least one integral fin comprises a plurality of integral fins, and all of the integral fins are present on the flat surfaces of the tube.

Claim 21 (Currently amended): An extruded heat exchanger tube according to claim 18, wherein the at least one integral fin comprises a plurality of integral fins, the external surface of the tube comprises two oppositely-disposed flat surfaces, and all of the integral fins are present on the flat surfaces, oriented parallel to the internal passage, and extend away from the flat surfaces. ~~has alternating first and second portions, the first portions extending a greater distance from the external surface of the tube than the second portions.~~

Claim 22 (Currently amended): An extruded heat exchanger tube

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according to claim 18, ~~claim 21~~, wherein the second portions of the at least one integral fin are defined by bent regions of the at least one integral fin.

Claim 23 (Currently amended): An extruded heat exchanger tube according to claim 18, ~~claim 21~~, wherein the second portions of the at least one integral fin are defined by removed regions of the at least one integral fin.

Claim 24 (Original): An extruded heat exchanger tube according to claim 18, wherein the at least one integral fin has a terminal portion a longitudinal distance from the end of the tube.

Claim 25 (Original): An extruded heat exchanger tube according to claim 24, wherein the tube is assembled with a manifold with the end of the tube residing in a port in a wall of the manifold and the terminal portion of the at least one integral fin abuts the wall of the manifold.

Claim 26 (Original): An extruded heat exchanger tube according to claim 25, wherein the tube is one of a plurality of extruded heat exchanger tubes assembled with the manifold, each tube having at least one internal passage extending in a longitudinal direction parallel to an extrusion direction of

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the tube, an external surface having a cross-sectional shape transverse to the extrusion direction, and at least one integral fin parallel to the extrusion direction and extending in a transverse direction away from the external surface of the tube, the at least one integral fin of each tube having alternating first and second portions, the first portions extending a greater distance from the external surface of the tube than the second portions, the first portions being aligned with each other so that passages between the tubes are defined by the second portions.

Claim 27 (Previously presented): An extruded heat exchanger tube according to claim 25, wherein the manifold is formed to have an external surface with an oblong cross-sectional shape and two oppositely-disposed flat surfaces, one of the flat surfaces defining the wall of the manifold in which the port is present.

Claim 28 (Previously presented): A heat exchanger having a pair of manifolds and extruded tubes fluidically connected to the manifolds to allow fluid flow to and from the manifolds through the tubes, each of the tubes comprising:

multiple internal passages extending in a longitudinal direction parallel

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to an extrusion direction of the tube;

an external surface having an oblong cross-sectional shape defined by oppositely-disposed flat surfaces and two oppositely-disposed lateral surfaces; and

multiple integral fins on the flat surfaces, parallel to the extrusion direction, and extending in directions normal to the flat surfaces of the tube, each of the integral fins having alternating first and second portions and oppositely-disposed terminal portions spaced longitudinal distances from oppositely-disposed ends of the tube, the first portions extending a greater distance from the flat surfaces of the tube than the second portions;

wherein the tubes are assembled with the manifolds with the ends of the tubes residing in ports in walls of the manifolds and the terminal portions of the integral fins abutting the walls of the manifolds, the tubes being oriented so that the integral fins of adjacent pairs of the tubes are substantially parallel and the integral fins of each of the tubes extend toward an adjacent one of the tubes.

Claim 29 (Original): A heat exchanger according to claim 28, wherein the integral fins are present exclusively on the flat surfaces of the tubes.

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Claim 30 (Original): A heat exchanger according to claim 28, wherein
the second portions of the integral fins are defined by bent regions of the
integral fins.

Claim 31 (Original): A heat exchanger according to claim 28, wherein
the second portions of the integral fins are defined by removed regions of the
integral fins.